

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07K 14/705, 16/00, C12N 15/00, 15/12, 15/63		A1	(11) International Publication Number: WO 98/11139
(21) International Application Number: PCT/US97/16033		(43) International Publication Date: 19 March 1998 (19.03.98)	
(22) International Filing Date: 10 September 1997 (10.09.97)		(74) Agents: WEBER, Kenneth, A. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111 (US).	
(30) Priority Data: 60/026,451 11 September 1996 (11.09.96) US 60/040,052 7 March 1997 (07.03.97) US 60/045,233 17 April 1997 (17.04.97) US		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(60) Parent Application or Grant (63) Related by Continuation US Not furnished (CIP) Filed on Not furnished		Published With international search report. With amended claims.	
(71) Applicants (for all designated States except US): OREGON HEALTH SCIENCES UNIVERSITY [US/US]; 3181 S.W. Sam Jackson Park Road, Portland, OR 97201 (US). ICA-gen, INC. [US/US]; Suite 460, 4222 Emperor Boulevard, Durham, NC 27703 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): ADELMAN, John, P. [US/US]; 2433 S.W. Mitchell Street, Portland, OR 97201 (US). MAYLIE, James [US/US]; 1445 S.W. Westwood Drive, Portland, OR 97201 (US). BOND, Chris, T. [US/US];			

(54) Title: SMALL AND INTERMEDIATE CONDUCTANCE, CALCIUM-ACTIVATED POTASSIUM CHANNELS AND USES THEREOF

(57) Abstract

This invention relates to small and intermediate conductance, calcium-activated potassium channel proteins. More specifically, the invention relates to compositions and methods for making and detecting calcium-activated potassium channel proteins and the nucleic acids encoding calcium-activated potassium channel proteins. The invention also provides methods and compositions for assaying compounds which increase or decrease potassium ion flux through a calcium-activated potassium channel.